

Sheet 8

Problem 1

```
// Computers & control Engineering Dept. - First Year Students
// Computer Programming(2) - Second Term - 2011/2012
#include <graphics.h>           // graphics.h header file
# include <conio.h>
void main()
{
    int driver, mode;
    int x1=0,y1=0;
    int x2=199,y2=199;
    int xc=100,y=100;
    int r=40;
    driver=CGA;           // type of driver... INTEL or VEGA ... 640x480 VGA
monitor
    mode=CGAC0; // graphic mode not text mode...
    initgraph(&driver,&mode," "); // initgraph() function initializes
the graphics mode and clears the screen.
    line(x1,y1,x2,y2);
    circle(xc,yc,r);
    getch();
    closegraph(); // closegraph() function switches back the screen
from graphics mode to text mode
}
```

Problem 2

```
// Computers & control Engineering Dept. - First Year Students
// Computer Programming(2) - Second Term - 2011/2012
#include <graphics.h>
# include <conio.h>
void main()
{
    int driver, mode;
    int x1=0,y1=0;
    int x2=199,y2=199;
    int xc=100,y=100;
    int r=90;
    driver=DETECT;
    init_graph(&driver,&mode," ");
    setcolor(4);
    setbcolor(7);
    setlinestyle(DASHED_LINE,IGNORED,THICK_WIDTH);
    setcolor(BLUE);
    line(x1,y1,x2,y2);
    circle(xc,yc,r);
    getch();
    close_graph();
}
```

BLACK:	0
BLUE:	1
GREEN:	2
CYAN:	3
RED:	4
MAGENTA:	5
BROWN:	6
LIGHTGRAY:	7
DARKGRAY:	8
LIGHTBLUE:	9
LIGHTGREEN:	10
LIGHTCYAN:	11
LIGHTRED:	12
LIGHTMAGENTA:	13
YELLOW:	14
WHITE:	15

Problem 3

```
#include <graphics.h>
#include <conio.h>
void main()
{
    int driver, mode;
    int xrad=150,yrad=0;// radius in x axis and y axis..
    int xc=250,y=100; // center
    int stangle=0,endangle=360;
    driver=DETECT;
    init_graph(&driver,&mode," ");
    for(yrad=0;yrad<100;yrad+=2)
        ellipse(xc,yc,stangle,endangle,xrad,yrad);
    moveto(200,90);
    setcolor(BLACK);
    getch();
    close_graph();
}
```